



Models

FEATURES:

- I/O Isolation 3000VAC
- Operating Temp: -25°C to +70°C
- Input: 85-305VAC, 47-63Hz, or 120-430 VDC
- Over current, Short Circuit Protection
- Class II Power supply
- Energy Star compliant
- Ultra-small package



Single Outp	ut						BUS ROHS
Model	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Temperature range (ºC)	Output Voltage (V)	Output Current max (mA)	Maximum capacitive Load (μF)	Efficiency (%) 230 VAC
AME1-3.3SJZ	85-305/47-63	120-430	-25 to +70	3.3	300	4000	63
AME1-5SJZ	85-305/47-63	120-430	-25 to +70	5	200	4000	68
AME1-9SJZ	85-305/47-63	120-430	-25 to +70	9	111	2200	72
AME1-12SJZ	85-305/47-63	120-430	-25 to +70	12	83	2200	73
AME1-15SJZ	85-305/47-63	120-430	-25 to +70	15	67	1000	74
AME1-24SJZ	85-305/47-63	120-430	-25 to +70	24	42	680	75

Add suffix "-ST" for optional screw terminal bottom plate or "-STD" for optional DIN Rail screw terminal bottom plate.

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Current (full lood)	115 VAC		30	mA
Current (full load)	230 VAC		17	mA
Inrush current <2ms (cold start)	115 VAC	5		А
	230 VAC	11		А
Leakage current			0.15	mA
External fuse	Recommended slow blow type	1		А

Output Specifications

±6		0/
		%
±2		%
±5		%
10		%
100	200	mV p-p
,	±5 10	±5 10 100 200

Ripple &Noise measured at 20MHz bandwidth with 1μ F C/C and 10μ F E/C and 115/230VAC with Full Load.

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec		3000	VAC
Isolation Resistance		>1000		MΩ

General Specifications

Parameters	Conditions		Typical	Maximum	Units
Switching frequency			100		KHz
Over Current protection	Auto recovery		≥110%		
Short circuit protection	Auto recovery				
Operating temperature	With derating above 55°C	-25 to +70		°C	
Storage temperature		-40 to +85			°C
Maximum Case temperature				100	°C
Humidity	Non condensing		20 ~ 90		% RH
Case material	Plastic resir	Plastic resin (flammability to UL 94V-0)			
	PCB mountable models		20		
Weight	With optional -ST mounting plate		40		g
	With optional -STD mounting plate:		60		



Series AME1-JZ

Your Power Partner

1Watt | AC-DC / DC-DC Converter

Cooling		Free air convection
Dimensions (L x W x H)	PCB mountable models With optional -ST mounting plate: With optional -STD mounting plate:	1.33 x 0.87 x 0.71 inches (33.70 x 22.20 x 18.00mm) 2.99 x 1.24 x 1.06 inches 76.00 x 31.50 x 26.80 mm 2.99 x 1.24 x 1.24 inches 76.00 x 31.50 x 31.40 mm
MTBF	> 300,000 hrs (M	IIL-HDBK -217F, t=+25oC)/Full Load

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

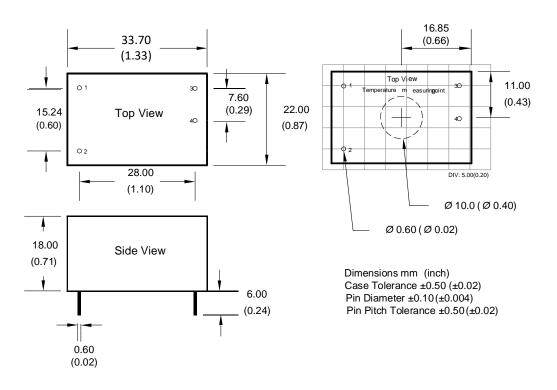
Safety Specifications

Parameter	'S	
Approvals	cULus, CE	
	Information technology Equipment	IEC/EN/UL 60950-1:2006+A11:2009
	EMI - Conducted and radiated emission	EN55022, class B
	Electrostatic Discharge Immunity	IEC 61000-4-2, Contact: ±4KV/Air: ±8KV, Criteria B
	RF, Electromagnetic Field Immunity	IEC 61000-4-3, 10V/m, Criteria A
Standards	Electrical Fast Transient/Burst Immunity	IEC 61000-4-4, ±2KV, Criteria B, with EMC recommended circuit
	Surge Immunity(1KV)	IEC 61000-4-5, ±1KV/±2KV, Criteria B, with EMC recommended circuit
	RF, Conducted Disturbance Immunity	IEC 61000-4-6, 10Vrms, Criteria A
	Power frequency Magnetic Field Immunity	IEC 61000-4-8, 10A/m, Criteria A
	Voltage dips, Short Interruptions Immunity	IEC 61000-4-11, 0-70%, Criteria B

Pin Out Specifications

Pin	Single
1	AC Input (N)
2	AC Input (L)
3	-V Output
4	+V Output

Dimensions



Q

d' 1 \oslash Ø З Top view 23.00 (0.91) 4 2 \oslash \oslash ⊕, Ø3.30 Ø0.13

Side view

61.60 (2.43)



-LED light

Z1.20 (0.84) 26.80 (1.06)

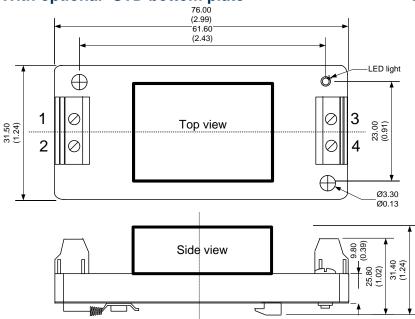
8.80 (0.35)

Π

Pin	Single			
1	AC Input (N)			
2	AC Input (L)			
3	+V Output			
4	-V Output			

Dimensions: mm (inch) Case Tolerance: ± 0.50 (0.02) Wire gauge: 24-12AWG





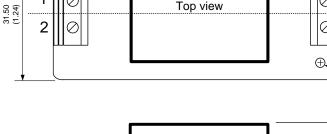
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With optional -ST bottom plate 76.00 (2.99)

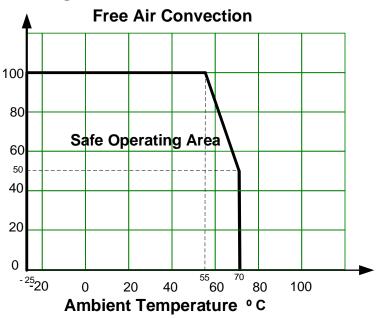


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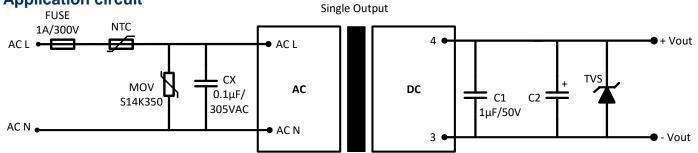


Your Power Partne

Derating

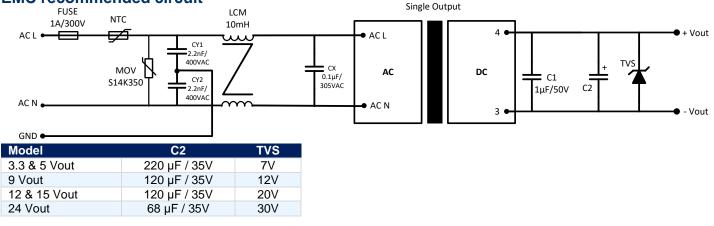


Application circuit



*GND connection not allowed

EMC recommended circuit



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